Reply to Office Action of June 13, 2007

A LISTING OF CLAIMS

1. (Original) A packet search device that performs packet filter search for an inputted packet, comprising:

a first search processing means for searching for search conditional statements corresponding to a plurality of information areas included in header information of said packet with a first search method; and

a second search processing means for searching the search results of said first search processing means with a second search method that is different from said first search method

- 2. (Original) The packet search device according to claim 1, wherein said first search processing means divides said packet header information into a plurality of information areas and searches across each search conditional statements structured as binary search trees for each of said information areas separately.
- 3. (Original) The packet search device according to claim 2, wherein said second search processing means searches aggregated search results of said first search processing means using Hash method.
- 4. (Original) The packet search device according to claim 1, comprising a search database for managing each search result of said first and second search processing means for each of said information area

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- (Original) The packet search device according to claim 4, wherein said search database has a plurality of search keys.
- (Original) The packet search device according to claim 3, wherein said second search processing means manages only combinations of search results.
- (Original) The packet search device according to claim 1, wherein at least QoS
 (Quality of Service) information and filter information are searched for based on said header information
- (Original) The packet search device according to claim 1, wherein said packet search processing is performed at least in a router and a firewall.
- (Original) A packet processing search method that searches for a packet filter for an inputted packet before performing packet processing, comprising:
- a first step of searching for search conditional statements corresponding to a plurality of information areas included in header information of said packet with a first search method; and
- a second step of searching the search results at said first step with a second search method that is different from said first search method.
- 10. (Original) The packet processing search method according to claim 9, wherein said first step divides said packet header information into a plurality of information areas and searches across each search conditional statements structured as binary search trees for each of said information areas separately.

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 (Original) The packet processing search method according to claim 10, wherein said second step searches aggregated search results of said first step using Hash method

- 12. (Original) The packet processing search method according to claim 9, wherein each search result at said first and second steps is managed for each of said information areas using a search database.
- (Original) The packet processing search method according to claim 12, wherein said search database has a plurality of search keys.
- (Original) The packet processing search method according to claim 11, wherein said second step manages only combinations of search results.
- 15. (Original) The packet processing search method according to claim 9, wherein at least Qos (Quality of Service) information and filter information are searched for based on header information in said packet.
- (Original) The packet processing search method according to claim 9, said packet search processing is performed at least in a router and a firewall.
- 17. (Original) A program for a packet processing search method that searches for a packet filter for an inputted packet before performing packet processing, causing a computer to execute,

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first processing that searches for search conditional statements corresponding to a plurality of information areas included in header information of said packet with a first search method; and

second processing that searches the search results of said first processing with a second search method that is different from said first search method.